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MCR passive isolator, for the electrical isolation of current signals without auxiliary power, 1-channel, input signal: 0(4)...20 mA, output signal: 0(4)...20 mA

Product Features

☑ Electrical isolation without additional auxiliary voltage

✓ 0/4 ... 20 mA current signals

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Key commercial data

Packing unit	1 pc
GTIN	4 017918 131722
Weight per Piece (excluding packing)	98.8 GRM
Custom tariff number	85437090
Country of origin	Germany

Technical data

Dimensions

Width	12.5 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-10 °C 70 °C
Degree of protection	IP20



Technical data

Input data

Description of the input	Current input
Configurable/programmable	no
Current input signal	0 mA 20 mA
	4 mA 20 mA
Max. input voltage	30 V (30 V overload)
Max. input current	50 mA (100 mA overload)
Response current	< 50 μA
Input voltage limitation	33 V (with Zener diode)
Voltage dissipation	2.5 V (at I = 20 mA)

Output data

Output name	Current output
Configurable/programmable	no
Current output signal	0 mA 20 mA
	4 mA 20 mA
Max. output current	< 50 mA
Load/output load current output	\leq 1375 Ω (at I = 20 mA output signal)
Transmission Behavior	1:1 to input signal

Power supply

Supply voltage range	no separate supply voltage necessary
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Connection data

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm²
Stripping length	8 mm
Screw thread	M3

General

No. of channels	1
Maximum transmission error	≤ 0.1 % (of final value)
Maximum temperature coefficient	≤ 0.002 %/K (of measured value / 100 Ω load)
Additional error, load-dependent	0.02 % (of measured value)
Limit frequency (3 dB)	< 75 Hz



Technical data

General

Step response (10-90%)	5 ms (with 500 Ω load)
Test voltage input/output	510 V (50 Hz, 1 min.)
Color	green
Housing material	Polyamide PA non-reinforced
Mounting position	any
Conformance	CE-compliant
UL, USA / Canada	cULus

Classifications

eCl@ss

eCl@ss 4.0	27210120
eCl@ss 4.1	27210120
eCl@ss 5.0	27210120
eCl@ss 5.1	27210120
eCl@ss 6.0	27210120
eCl@ss 7.0	27210120
eCl@ss 8.0	27210120

ETIM

ETIM 2.0	EC001485
ETIM 3.0	EC001485
ETIM 4.0	EC001485
ETIM 5.0	EC002653

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008

Approvals

Approvals

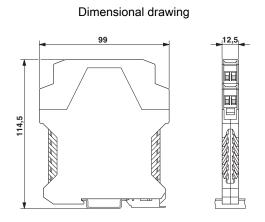
Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

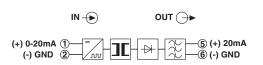


Approvals Ex Approvals Approval submitted Approval details UL Recognized *** CUL Recognized *** EAC CULus Recognized *** CULus Recognized ** CULus Recognized *** CULus Recognized ** CULus Recognized *** CULus Recognized *** CULus Recognized ** CULus Recognized

Drawings

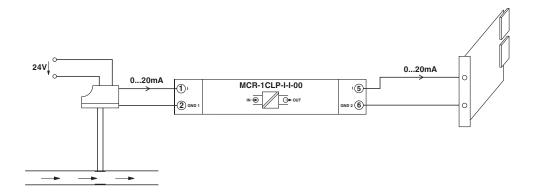


Circuit diagram





Application drawing

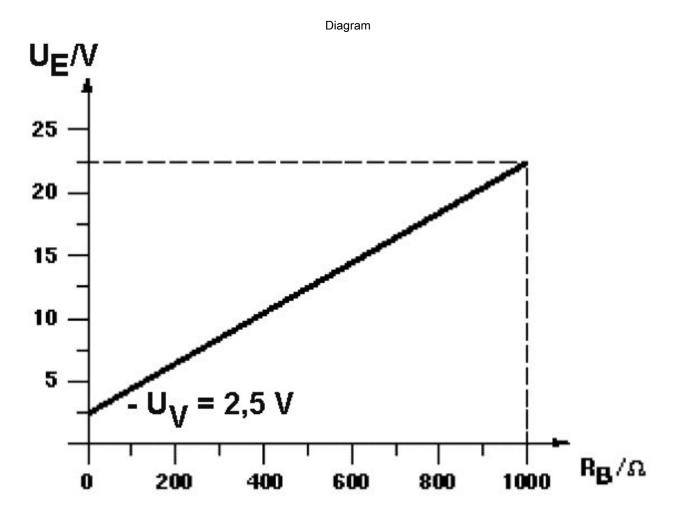


Application example: - flow measurement

1 = magnetic inductive flow gauge

2 = control





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